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Air Force Invention No. AFB00500

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On 14 January 2005  
DATE OF DEPOSIT

Thomas C. Stover 22,531  
NAME OF APPLICANT, ASSIGNEE, OR REG. REP.

TC Stover 14 January 2005  
SIGNATURE DATE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of  
Mark Ahmadjian et al  
Serial No. 09/862,788  
Filed: 18 May 2001  
For: **PLUME DETECTOR**

Group Art Unit: 2876  
Examiner: A. Kim

Honorable Commissioner for Patents  
Alexandria, VA 22313-1450

Sir:

**Supplemental Response After Final Under 37 CFR 1.116**

This response supplements applicants' response dated 12-30-04.

The above Office Action rejection of claims 1-5, 7-9, 11 & 13-16, as obvious under 35 USC 103 (a) over Hill, Jr. et al. ('285) herein Hill, in view of Hertel et al. ('531), herein "Hertel" is again respectfully traversed.

The Hertel patent is cited to add a lock-in amplifier to the teachings of Hill in a 103 (a) rejection of applicants' listed above claims by the above Office Action.

However, the Hertel patent is believed not effective against applicants' above claims under 37 CFR 1.131 and 715 of the MPEP. This is because applicants have submitted herewith a